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[Continued on next page]

(54) Title: NOVEL BACILLUS BAGCEL CELLULASE

ORF Nucleotide sequence of cellulase gene

ATGGGTTATA CCAAAGCGAA GTGTACGTTG AAAAAAACTG TCTTGTTTGG TTTAATTCTC TGTTTAAGTG TGTCAATGTT TGTTCAATG ACATCAGCTG AAGATGTCAC TTTGGTCACAG TTTGGTAATGTT TGTTCCAATG ACATCAGCTG CAGCCTGGCT GGAATTTAGG AAATACGTTT GACCTGTTG GACATGACAT	Old. Macientine and mention of seminate Bonne	
TITAATTCTC TGTTTAAGTG TGGATATTT TGTTCCAATG ACATCAGCTG AAGATGTCAC TTCGTCACAG TTGGATATTC ACAGCTGGCT GAATTTAGG AAATACGTTT GACGCTGTTG GAGATCATGA ACAGCGTGG GGGAATCTCC GTGTAACAAG AGAGTTAATA AAAACGATTG AACAGCGTGG GGGAATCCTC GTGTAACAAG AGAGTTAATA AAAACGATTG ACAGCTGGG GGAATCCTC GTGTAACAAG AGAGTTAATA AAAACGATTG ATGGATGAAGG GTATAAAAGA ATTCGTTATCC ATGGATGAAGG GTATAAAAAGA ATTCGTTATCC ATGGATGAAGG ATAGATTGG COTTGGAGGA AGACTTAATA TCAATCGGGT ATGGATGAAGC ATAGATTGG COTTGGAGGA AGACTTATAT GTGATGTTAAA ATGGATCATCA TGGCAAGATA TACAGCTATT TGGAACAAT GTGATGTTAAA ATCAAAAGC CACTCCCATA AGTTGATGTT TGGAACAAT TGTGGAAAAA ATTCAAAAGC CACTCCCATA AGTTGATGTT TGGAACAAT TGTGGAAAAA ATTCAAAAGC CACTCCCATA AGTTGATGTT TGGAACAAT TGTGGAAAAA ATAGAGCTG GAGATTCAAG AAAATCATCA TGCTTACTTA 600 GAAGATTTAA ATAAGACGTT CATATATATT GTCAAGAGAT CAGGAGGCAA 650 GAGAATTAAT AGACCGTTG TATTGCCTAC GATAGAAACA GCCACCTCTC 700 AGGATTAACT AGACCGTTG TATTCAACAA TGGAAGAACA GCCACCTCTC 700 AGAATTAATT CACACCATT TATTATGCT TATTATATT GAAAGAACT TATTGTCAAA ACACCTTTGA CCACCCTCAT TATTAACCAA TGGAAGAACA GCCACCTCTC 700 TATTAACGAG TACACTCATT TATAACAGA AACACAAAAAA GCCACCTCTC 750 TATTAACGAG TACACTCATT TATTATGGC TTCTGGCCAT TTATTATTAT BATTGGAAGAACT CACACCTTTAA AACACAATTAA CAGCCCTGG TGTCCCAGTT 900 TATTAGGAGG TACACTCATT TATTAGGCT TGACACAACAA GAATATTATATG BATTCATTCAACAA AACACAAAAAAAAAAAAAAAAAAA	ANALASANTA CONNECTENA CICIACCITE ANALASANTE TETTETTIGE	50
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ATTCAAAAGC CACTCCCATA AGTIGATGTT TGAGAGGTTC AATGAGCCTA GGTTTAGCAC GGAGTGGGGA GAGATTCAAG AAAATCATCA TGCTTACTTA GOO GAGAGTTTAA ATAAGACGTT CTATATATT GTCAGAGAGT CAGGAGGCAA 650 TAATGTGGAG CGCCCTTTAG TATTGCCTAC GATAGAAACA GCCACGTCTC TATTTAATTG CCACCGTGCA TTATTATATGC TTCTGCCAT TATGACAGGA ACACCTTTCA CCCTGTTCAT AACACATTTA CAGCAGCGTG TTATATATAG GCACCTTTCA CCCTGTTCAT AACACATTTA CAGCGCGTGG TGTCCCAGTT GTATTAGCGG AATTCGGTT GTTAGGCTTT GACAAAACTA GATATTATAG GCAGAAGGG GAGAAATTAA AGTTTTTTGA GTTTCTCATC CATCATTCCA CCAGAAACCTA ATGTTATATTGG TTTCTCATC CATCATTCCA ATGACGTGA TATAACCCAT ATGTTATTTTGA GTTTCTCATC CATCATTCCA CCAGAAACCTT ATGCATGGTA TGATCAAGAA TTTCATGCA TATTAAAAGC GAGTTGGGA GGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATTCA AATGAGCTAA CAGCCTTACA GGCAGGGGG GAACCCCTCA AATGAGCTAA CAGCCTTACA GGCAGGGGGG GAACCCCTCA AATGAGCTAA TACCCCTGGT CAATTAGGA GAACCGAGA TCTCAGGGAA CCAAGACTAAT TACCCCTGGT CAATTAGGAA CAATTACAGA TTCCAGGAGA CCAAGCTAAT TACCCCTGGT CAATTAGGAA CAATTACAGA TACCACGCA GAATTACAGA 1250 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATTACAGA ATGTCATTCA ATGCACAGCA 1350 CCAAGGCTAAT TACCCCTGGT CAATTAGGAA CCAATTACAGA ATGTCAGCTT CATCACAGCA 1350 CCAACGGTC GAAAATACAG ATGCCCTTTC CAATTACAGA ATGTCAGCTT CAATTACAGA ATGTCAGCTT CAATTACAGA ATGTCACCTCA 1300 CCAACGGTC GAAAATACAG ATGCCCTTCT CAATTACAGA ATGTCACCTCA 1450 CCCACTTTTAA TGGTGATAGT CTTCCGACGA ATGGCATTTT GCGACCCCTCA 1450 CCCACTTTTAA TGGTGATAGT CTTCCGACGA ATGGCATTTT GCGACCCCTCA 1450 CCCACTTTTAT CTGGACCGA CTGCCCTTTC AATTACAGA ATGTCACTT CCTAATTACA TTCCCCCTCA 1450 CCCACTTTTAT CTGGACCGA CTGCCCTTTC TATTACAGA ATTTTCACAAC 1550 CGCGTTTTCT CCTAATTACG CACAGGGGA ATTTTATATAT TCAAGACCT 1600 CTCTTAACCGC GGTACGGAT GATGATATCC ATTTAACATT TCAATTTTCG 1650 ACGCGGAGACA CCGTGGAATA TACCCTTACCT AAAAATGCCA ATTTATATAT TCAAGACCT 1600 CTCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCAATTTTCG 1650 ACGCGGAGACAC CCGTGGAATA TACCCTTACCT AAAAATGCCA ATTATTATTAT TCAAGACCT 1600 ACGCGAGAGAA ATTATCCC CACAGGGGA AATTATTATAT TCAAGACCT 1600 ACGCGAGAGAA ATTATCCC CCACAGGGGA AATTATATATAT TCAAGACCT 1600 ACGCGAGAGAA ATTATCCC CCACAGGGA AATTATATATAT TCAAGACCT	AIDIGGRACA TORCHAGATA TACAGCTATT TOGGAACAT TOTOGGAAAA	500
GGTTTACGCA GGAGTGGGGA GAGATTCAAG AAAATCATCA TGCTTACITA GAGAGATTAA ATAAGACGTT CTATIATATT GTCAGAGAGT CAGGAGGCAA GECCTTTAG TATIGCCTAC GATAGAAACA GCCACGTCTC AGGATTACT AGATCGCTTG TATICACACAA TGGAAGACT GGATGATACCT TATITAATTG CCACGTGCA TTATIATAGGC TTCTGGCCAT TTAGTGCAA ACACCTTTGA CCGTGTTCAT ACACCATTTA CAGCGCGTGG GATAGAACAA GATATTATAGG GAATTAGCGG AATTCGGTTT GTTAGGCTTT GACAACAA GATATTATAGG GAGAAACGG AAATCCGTTT GTTAGGCTTT GACAACAA GATATTATAGG GAGAACGG AATTCGGTTT GTTAGGCTTT GACAACAACAA GATATTATAGG TCAGGAAGGG GAGAAATTAA AGTTTTTTTGA GTTTCCTACT CATCACTCCA 1000 ATGAACGTGA TATAACCCAT TGTTATGGG ATAACGGCCA GCATTTAAAT 1050 CAGAAACTT ATGCATGGTA TGATCAAGAAT TTCATGACA TATITAAAGC 1100 GAGTTGGGAG GGGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATGACA 1200 AATGAGCTAA CAGCCTTACA GGCAGGGAG GAATCGCTT TCTAGGGGA 1200 CAAGACTAAT TACCCCTGGT CAATTAGGA GAATCACTT TCTAGGGGA 1250 CAAGACTAAT TACCCCTGGT CAATTAGGA CAATTACAGA TTGCAGCTT TCTAGGGGA 1250 CAAGACTAAT TACCCCTGGT CAATTAGGA CAATTACAGA TTGCGACGT CATCACAGCA 1300 CCAACGGTC GAAAATACAG ATGCGCTTT CAATTACAGA ATGTGGACGT CACCCCCA 1300 GCCAACGGTC GAAAATACAG ATGGCGTTTT CAATTACAGA ATGTGGACGT CACCCCCA 1300 GCCAACGGTC GAAAATACAG ATGGCGCATTT GCGACCCTCA 1450 GCCAACGGTC GAAAATACAG CCCACAGGGA ATTACAGA TTGCGACCT TTATGCGAA 1550 GCGATTTTAT TGGTGCAGAT CCCACAGGGA TTGGAAGCTT TTATGCGAA 1550 GGGGTTTTCT CCTAATTACG CCCACAGGGA ATTTATATAT TCAGAACCT 1600 TCTTTAACGC GGTACGGAT GATGATATCC ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCGTGGAATA TACCTTACCT AAAAATGGCA ATTTATTATAT TCAGAGCCT 1600 ACGCGAGAGAC CCCCCCA GAATTGGACG ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCGTGGAATA TACCCTTACCT AAAAATGGCA ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCCCCTATATACC CCCACAGGGA ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCCCCCCCC AGATTTACCC ATTTATACAT TCAGAACCCT 1600 ACGCGAGAGAC CCGTGGAATA TACCCTTACCT AAAAATGGCA ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCGTGGAATA TACCCTTACCT AAAAATGGCA ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCCCCCTATATACCG ATTTATATAT TCAGAACCT 1600 ACGCGAGAGAC CCGTGGAATA TACCCTTACCT AAAAATGGCA ATTATTATAT TCAGAACCT 1600	ATTENDED TO THE PROPERTY ACTUATION TO THE PROPERTY ANTIGORIES	550
GAAGATTTAA ATAAGACGT CTATTATATT GTCAGAGAGT CAGGAGGCAA TAATGTGGAG CSCCCTTTAG TATTGCCTAC GATAGAAACA GCCACGTCTC TATTTAATTG CCACGGTGCA TTATTACAACAA TGGAAGACTT GCAAGATTAAA TAAGACGGG TACACTCATT TTGAACAGA AACACAACAA GATATTATAG ACACCTTTGA CCGTGTCAT AACACATTTA CAGGCGCGG TGTCCCAGTT 900 GTATTAAGCGG AATTCGGTTT GTTAGGCTTT GACAAAACAA GATATTATAG 950 TCAGCAAGGG GAGAAATTAA AGTTTTTTTGA GTTTCTCATC CATCATCTCA 1000 ATGAACGTGA TATTAACCCAT ATUTTATGGG ATAACGGCA GCATTTAAAAG CGAACACTT ATGCATGGTA TGATCAAGAA TTCAATGGCA GCATTTAAAAG AATGAGCTAA ATGCATGGTA TGATCAAGAAT ATCAAGCTTTA CATCAAGAACTT CTTAAACGGA GCATTTAAAAG AATGAGCTAA CAGCCTTACA GCAGGGGGG GAATCGCTTT TCTAAACGGA 1200 GAATTATAATT CTGGAGCAGA GCCAATTAACA GCCAAGACTT TCTAAGAGAA 1250 GCAACGGTC GAAAATACAG ATGCCTTCAC CATCACCTCA 1300 CCAAGACTAAT TACCCCTGGT CAATTAGAA CCCAATGCAGT TTCTAAGAGG 1250 GCAACGGTC GAAAATACAG ATGCCTTCAC ATGCCATTT GCCAACGGT CATCACAGA 1350 CCAACGGTC GAAAATACAG ATGCCTTCAC ATGCCATTT GCAACCGCT CATCACAGA 1450 CCCATTTAA TGGTGATAGT CTTCCGACGA TGGAAGCTT TTATGCAAC 1500 GGAGAATATT CTGGAGCGAA ATGCCTTCA TATGCAACA 1550 GCAACGGTC GAAAATACAG ATGCCTTCAC ATGCCATTT GCAACCCTCA 1450 CCCATTTTAA TGGTGATAGT CTTCCGACGA TGGAAGCTT TTATGCAAC 1550 GGAGAATATT CCGGCCCCA AGATTGGAGG TCATTTAAAA AATTTGGCGA 1550 GGAGAATATTA CGGCTCCAA TACGCATTT TCATGCAAC 1500 GGAGAATATT CCGCACGAGGA AGATTGGAG TCATTTAAAA TTCATTTTCG 1650 AGGGGAGAAA CCCGTGGAAT AGCCTTCAC ATGCAATTT TCAATACACT 1500 GGAGAATATT CCGCACGAGGA ATTATATATT TCAATTTCGGAA 1550 AGGGGAGAGA CCGTGGAATA TACCTTACCT AAAAATGGCA ATTATGTTCA 1650 AGGGGAGAGA CCGTGGAATA TACCTTACCT AAAAATACAT TCATTTTTCG 1650	ATTEMPTED CONCRETE GREATTING ANALYZATEA TECTTACITA	600
TRATGTGGAG CGCCCTTAG TATTGCCTAC GATAGAAACA GCCACGTCTC AGACTTACT AGATCGCTTG TATCAAACAA TAGAAACAA GATATTACT TATTTAATTG CCACGGTGCA TTATTATGGC TTCTGGCCAT TTAGTGTCAA BOO TATAGCAGGG TACACCTCATT TTGAACAGGA AACACAACAA GATATTATAG ACACCTTTCA CCGGTGTCAT AACACATTTA CAGCGCGTGG TGTCCCAGTT GTATTAGCGG AATTCGGTTT GTTAGGCTTT GACAAAAGTA CGGATGTGAT TCAGCAAGGG GAGAAATAA AGTTTTTTGG ATTTCTCATC CATCACTCCA ATGAACGTG TATAACCCAT ATGTTTTTGG ATTACAGCCA GCATTTAAAT CGAGAAACTT ATGCATGGTA TGATCAAGAA TTCCATGTGA AGGACGGAAA GCCAATTAGA GATCAAGATA TACAGCTTTA ATTCCATGTGA AATGAGCTAA CAGCCTTACA GACCAGAGA GTCTAATTTG ATTCCATGGA AATGAGCTAA CAGCCTTACA GACCAGAGA GAATCAGCTT TTCTAAACGGA CCAAGTAGA GCCAATTAGA GATCAAGATA TACAGCTTTA CTTCAAGCAGA CCAAGTAGA CTAGCAGGAG GAATCGCTT TTCTAGAGGA CAAGACTAAT TACCCCTGGT CAATTAGGAA CAGCCTTCA TTCTAAAGGC CAAGACTAAT TACCCCTGGT CAATTAGGAA CAATTACAGA CAGCCTTCA CAATTAAAT CTGGAGCAGA CTGGCGTTTT CAATTACAGA CATCACCAGC CCAACGGTC GAAAAATACAG ATGGCTTTT CAATTACAGA CATCACCAGC CCCATTTAA TGGTGATAGT CTTCCGACGA TTGGAACTTT TCCTAGCAGAT CCCATTTAA TGGTGATAGT CTTCCGACGA TTGGAACTTT TCCTAGCAGAC CCCATTTTAA TGGTGATAGT CTTCCGACGA TTGGAACTTT TATGCAAAC CGGGGTTTTC CCTAATTACG CACAGGGGA AATTATATATA TAGGTCAACAC TTGGCACTTT TATGCAAAC CGCGACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGACCCTA 1450 CCCACTTTAA TGGTGATAGT CTTCCGACGA TTGGAACTTT TATGCAAAC CCCACTTTAA TGGTGATAGT CTTCCGACGA ATTATTATAA AATTTTGGCA AATTAACCC GGACCGCA AGATTGGACG TAATTTAAACAT TCATTTTTGG AGCGGAGACA CCGTGGAATA TACCCTTACCT AAAAATGCCA ATTGTTTTTGG AGCGGAGACA CCGCGGAAATAACC CACAGGGGA AATTATTATA TACAGCCT 1600 TCTTTAACCGC GGTACGGAT GATGATATCC ATTTAACATT TCATTTTTGG AGCGGAGACA CCGTGGAATA TACCCTTACCT AAAAATGCCA ATTATTTTTACACAT TCATTTTTTGG AGCGGAGAGAA CCGGTGGAATA TACCCTTACCT AAAAATGCCA ATTATTTTTACACAT TCATTTTTTTTTT	CARCATTERA BYARGACTET CTATTATATT GTTAGAGAGT CAGGAGGCAA	650
AGGATTACT AGATCSCTTG TATCARACAR TGGARGACTT GGATGATCCT TATTATATTG CCACGGTGCA TTATTATGGC TTCTGGCCAT TATGATCAR ACACCTTTGA CCGTGTCAT ACCACATTA CAGCGCGTGG TGTCCCAGTT GTATAGCAGGG AATTCGGTTT GTTAGACAGGA AACACAACAA GATATTATAG GTATTAGGC AATTCGGTTT GTTAGGCTTT GACAAAACTA CGGATGTGAT GTATTAGGC GAGAAAATTAA AGTTTTTTGA GTTTCTCATC CGGATGTGAT ATGACACTGA TATAACCCAT ATGTTATTGA GTTTCTCATC CATCATCTCA AGGACGGAG GAGAAATTAA AGTTTTTTGA GTTTCTCATC CATCATCTCA CAGAAACCTT ATGCATGGTA TGATCAAGAA TTTCATGACA TATTAAAAGC GAGTTGGGAG GGGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATGTGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTT CTTAAGGGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTT TTCTAGGGAA AATGAGCTAA TACCCCTGGT CAATTAGGAA CCAATTAGAAC TACCCCTCA CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATTACAGA ATGTGGACGT CAATTAATT CTGGACAGA CTGCCGTTTT CAATTACAGA ATGTGGACGT CCCATTTTAA TGGTGATAGT CTTCCGACGA ATGGCATTTT GCGATCCCTA GGAGAATATA CGGCCCCA AGATTGGACG TCAATTAAAAC 1500 GCCAACGGTC GAAAATACAG ATGGCCTTAC ATGGCATTTT GCGATCCCTA GGAGAATATA CTGGGCCGCA AGATTGGACG TCAATTAAAAAC GCCAACGGTC GAAAATACAG ATGGCCTTACA ATGGCATTTT GCGATCCCTA CCCATTTTAA TGGTGATAGT CTTCCGACGA ATGGCATTTT GCGATCCCTA 1450 GCCAACGGTC CAAATTACG CCACAGGGGA ATTTATAATA TACAGCCT AATTAACAG CTGGGCGCA AGATTGACAG TCAATTAACAAC 1500 GCGAGAATATA CCGCCCCCA AGATTGAACG TCAATTAAAACAT TCAATTTCGGAA AGCGGAGAGAA ATACCG CCACAGGGGA AATTATAATAT TCAATTTTCG 1650 AGCGGAGAGAA CCGGTGAATA TACCCTTACCT AAAAATGGCA ATTATTTTCG 1650 AGCGGAGAGAA ATCCCCCCCCAC AAAAAATACCC ATTATAAAAT TCAATTTTCG 1650 AGCGGAGAGAA ATCCCCCCCCAC AAAAAATACCC ATTATAATAT TCAATTTTCG 1650 AGCGGAGAGAA ATCCCCCCCCAC AAAAATACCC ATTATAATAT TCAATTTTCAACAT TCAATTTTCG 1650 AGCGGAGAGAA ATCCCCCCCCCAC AAAAAATACCC ATTATAATAT TCAATTTTCG 1650 AGCGGAGAGAA ATCCCCCCCCCCAC AAAAAATACCC ATTATAACAT TCAATTTTCG 1650	MANAGERIA COCCUTTING TATTGCCTAC GATAGAAACA GCCACGTCTC	700
TATTAATTG CCACGGTGCA TTATTATGGC TTCTGGCCAT TTATGTGCAA 800 TATAGCAGGG TACACTCATT TTGAACAGGA AACACAACA GATATTATAG 850 ACACTTTGA CCGTGTTCAT AACACATTTA CAGCGCGTGG TGTCCCAGTT 900 GTATTAGGCG AATTCGGTTT GTTAGGCTTT GACAAAAGTA CGGATGGAT 950 ATGAACGTGA TATAACCCAT ATGTTATTGG ATAACAGCCC GCATTTAAAT 1050 CCAGAAACTT ATGCATGGTA TGATCAAGAA TTTCATGACA TATTAAAAGC 1100 GAGTTGGGAG GGGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATGACA 1200 AATGAGCTAA CAGCCTTACA GGCAGGGAG GAATCGCTA TTCAAGGGA 1200 CAAGACTAA CAGCCTTACA GGCAGGGAG GAATCGCTT TTCAGGGAA 1250 CAAGACTAAT TACCCCTGGT CAATTAGGAA CAGCCTTCA TATCAAGGAT 1200 CCAACGGTC GAAAATACAG ACGCGTTTT CCAATTACAGA TATGCACGCT 1300 CCCACGGTC GAAAATACAG ATGCCGTTTT CAATTACAGA TATGCGACGT 1400 GCCAACGGTC GAAAATACAG ATGCCGTTTT CAATTACAGA TATGTGACCGT 1450 CCCATTTTAA TGGTGATAGT CTTCCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGGGGATATTCC CCTAATTACG CCACAGGGA ATTTAAAACAT TCACAAGCCT 1600 AGGGGAGACA CCCTCAATTACG CCACAGGGA TCATTTAAAG AATTTGGGAA 1550 GGGGTTTTC CCTAATTACG CCACAGGGGA ATTATATATA TACAAGCCT 1600 AGGGGAGACA CGGTGGAATA TACCCTTACGT AAAAATGGCA ATTATTATAT TCACAAGCCT 1600 AGGGGAGACAC CCCCAGGGGA ATTATTATATA TACAAGCCT 1600 AGGGGAGACAC CGGTGGAATA TACCCTTACGT AAAAATGGCA ATTATTTTGG 1650 AGGGGAGACAC CGGTGGAATA TACCCTTACGT AAAAATGGCA ATTATTTTTGG 1650 AGGGGAGACAC CGGTGGAATA TACCCTTACGT AAAAATGGCA ATTATTTTTTTTTT	ACCOUNTS OF AGRICULTING TATCARGER TEGRAGACTI GGATGATCCT	750
TATAGCAGGG TACACTCATT TIGHACAGGA AACACACAA GATATTATAG 850 ACACCTITIGA COSTIGITCAT AACACATITA CAGGGGGGG TGTCCCAGSTT 900 GTATTAGGGG AATTCGGTTT GTAGGCTTT GACAAAAGTA CAGGATGGAT 950 ATGACAAGGG GAAAATTAA AGTTTTTTTGA GTTTCTCATC CATCATCTCA 1000 ATGAACAGTGA TATAACCCAT ATGTTATAGGG ATAACGGCCA GCATTTAAAAT 1050 AGGACAGAAACTT ATGACAGGAT TGATCAAGAAA TTTCATGACA TATTAAAAGC 1100 AAGGACGAAA GCCAATTAGA GATCAAGAAA TTTCATGACA TATTAAAAGC 1100 AAGGACGAAA CAGCCTTACA GGCAGGGGGG GAATCGCTTT CTTAAACGGA 1250 AATGAGCTAA CAGCCTTACA GGCAGGGGGG GAATCGCTTT TCTAGGAGGA 1250 AATGAGCTAA TACCCCTGGT CAATTAGCAA CCCAATGCAGT CATCACGGCA 1350 AAGAATACAG CACACCTCA 1300 AAGAATACAG CACACCTCA 1300 ACCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTT CAATTACAGA ATGTGGAGGT 1400 ACCCAACGGTC GAAAATACAG ATGGCTCAAC ATGCATTT GAACACCTCA 1450 ACCCATTTAAA TGGTGAAATACAG ATGGCTCAAC ATGGCATTT TATGCAAAC 1500 AGGAGAAATACG CACACGGGGA AATTATACAT TCAGAAACCCTCA 1500 AGGAGAAATACG CACACGGGGA AATTATACAT TCAGAACCT 1600 AGGAGAAATACG GGATCAACACCTCA TATGCAATT TCAGAACCT 1500 AGGAGAAATACG GGACGAGAA ATGGCATTTT ATGCAAAC 1500 AGGAGAAATACG GGATCAACACCTCA TATAACAGT TCATTTTAGGAA 1550 AGGAGAAGAC AGGATGAACACCT AAAAATACG ATTAACAT TCAATTTTAGGAA 1550 AGGAGAAGAC AGGATGAACACCT AAAAATACG ATTAACACCT TCATTTTTAGGAA AATTTTGCAAAC 1500 AGGAGAAGAC AGGATGAACAC AATTAACAC AATTAACACCT TCATTTTTAGGAA AATTTTGCAAAC 1500 AAGACCACCCTCA AAAATACAG AGGATGAAGA ATTAACAGA AATTTTTAGAACAT TCAATTTTTAGGAA AATTTTTAGAACAT TCAATTTTTAGGAACCT AAAAAAAGACCCAAAACACCTAAACAGAAAAAAAAAA	TATTERATURE CONCRETION TENTENTING TENTESCONT TENTESTONA	800
ACACCTITGA COGTGTTCAT AACACATTIA CAGGGGGTGG TGTCCCAGTT GTATTAGGGG AATTCGGTTT GTTTAGGCTTT GACAAAAGTA CGGATGTGAT TCAGCAAAGGG GAGAAATAA AGTTTTTTGA GTTTCTCATC CATCATCTCA 1000 ATGAACGTGA TATAACCCAT ATGTTTTTGA GTTTCATCATC CATCATCTCA CGAGAACTT ATGCATGGTA TGATCAAGAA TTTCATGACA TATTAAAAGC GGAGTTGGGA GCCAATTAGA GATCAAGAA TTTCATGACA TATTAAAAGC AATGAGCTAA CAGCCTTACA GACCAGAGA GTCTAATTTG ATTCATGTGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAAGCGGA GGATTATGAA CTAGCAGGAG GCGATTTAAC GCTAAAAGCG GACACCCTCA GAATTAAAT TACCCCTGGT CAATTAGGAA CAGCATTTC CATCACAGCA CAATTAAAT CTGGAGCAGA CTGGCGTTTT CAATTACAGA ATGGGACTT CCCAATTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTG TATGGAACG GCCAACGGTC GAAAATACAG ATGGCTTTTT GCGATCCCTA CCCATTTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTG TTATGGAAC GGAGAATATT CTGGGCCCCA AGATTGGACG TCGATTTTAAG AATTTGGCAAC GGGGTTTTCT CCTAATTACG CCACAGGGGA ATTATTATA TACAGGACT AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTGTTCA AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATTTTTG 1650 AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	TATAGGAGGA TACACTCATT TRIBACAGGA AACACAACAA GATATTATAG	850
GTATTAGGGG AATTOGGTTT GTTAGGCTTT GACAARAGTA CGGATGGAT TCAGCAAGGG GAGAAATTAA AGTTTTTTTAG GTTTCTCATC CATCATCTCA 1000 ATGAACGTGA TATAACCCAT ATGTTATTGG ATTACGGCCA GCATTTAAAT 1050 CCAGAAACTT ATGCATGGTA TGATCAAGAA TTTCATGACA TATTAAAAGC 1100 GAGTTGGGAG GGGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATGTGA 1150 AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAGGGAG 1200 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT GTCTAGGAGA 1250 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACAGCA 1350 CCAATTAAATT CTGGAGCAGA CTGCCGTTTT CAATTACAGA ATGTGGACGT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAC ATGGCATTTT GCGATCCCTA 1450 CCCATTTTAA TGGTGATAGT CTTCCGACGA TGGAACGTG TTATGCAAAC 1500 GGAGAATATG CTGGGCCCCA AGATTGGACG TCATTTAAAG AATTTGGCAA 1550 GGCGTTTTCT CCTAAATTACG CCACAGGGGA ATTTTAAAAAT TCAGTAACCT 1600 TCTTTAACGC GGTACGGATA TACCTTACCT AAAAATGGCA ATTATGTTCA 1650 AGCGGAGAGA CGGTGGAATA TACCTTACCT AAAAATGGCA ATTATGTTCA 1700	ACCOMPANY CONTESTICAT ABCACATTTA CAGCGCGTGG TGTCCCAGTT	900
TCAGCAAGGG GAGAAATTAA AGTITTITGA GTITCTCATC CATCATCCA ATGAACGTGA TATAACCCAT ATGITATTGG ATAACGGCCA GCATITAAAT 1050 CGAGAAACTT ATGCATGGTA TGATCAAGAA TTTCATGGCA TATAAAAGC 1100 AGGACGGAA GCCAATTAGA GATCAAGATA TACAGCTTA ATTCATGGA 1250 AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAGGGAG 1250 CGATTATAGA CTAGCAGGAG GCCAGCGGAG GAATCGCTTG TTCTAGGAGA 1250 CAAGCTAAT TACCCCTGGT CAATTAGGA CCCAATGCAGT CATCACAGGA 1350 CAAGTAATT CTGGAGCAGA CTGCGGTTTT CAATTACAGA ATGTGGACGT 1400 CCCATTTAA TGGTGATAGT CTTCGGACGA TGGCATTTT GCGATCCCTA 1450 CCCATTTTAA TGGTGATAGT CTTCGGACGA TGGAAGCTG TTATACAGA ATTTGGCAAC 1550 GGGGTTTTC CCTAATTACG AGATTGGAG TCATTTAAAG AATTTGGCAA 1550 CGGGGTTTTC CCTAATTACG AGATTGGAGC TCATTTAAAG AATTTGGCAA 1550 CGCGGTTTTC CCTAATTACG AGATTGGAGC TCATTTAAAG AATTTGGCAA 1550 AGGGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1650 AGGGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CTATTACCCC AATTYCCTTT CTTAGGCTTT GACAAAAGTA CGGATGTGAT	950
ATGRACGTGA TATRACCCAT ATGTTATGGG ATAACGGCCA GCATTTAAAT CCAGAAACTT ATGCATGGTA TCATCAAGAA TTTCATGACA TATTAAAAGC GAGTAGCTA ATGCATGGTA TCATCAAGAA TTTCATGACA TATTAAAAAGC GAGTTGGGAG GGCCGTTCTG CTACAGCAGA GTCTAATTG ATTCATGTGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCCCTTG TTCTAGGAGA 1200 GAATTATGAA CTAGCAGGAG GCGATATTAAC GCTAAAAGCC GACACCCTCA 1300 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACGCA 1350 CCAATTAATT CTGGAGCAGA CTGGCTTAC CAATTACAGA ATGTGGAGCGT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATTC CTGGGCCCCA AGATTGGACG TCATTTAAAG AATTTGCAACC 1500 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCATTTTTGG AGCCGAGGACA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700 AGCCGAGAGAC CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	TENGENECIS GREANTINA ROTTITITGA GITTETCATE CATEATETCA	1000
CGAGAAACTT ATGCATGGTA TGATCAAGAA TTTCATGACA TATTAAAAGC GAGTTGGGAG GGGCGTTCTG CTACAGCAAGA GTCTAATTTG ATTCATGGAA AGGACGAAAA GCCAATTAGA GATCAAGATA TACAGCTTTA CTTAAACGGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAAGGAGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAGGAGA GGATTATGAA CTAGCAGGAG GCGTATTAAC GCTAAAAGCG GACACCCTCA 1300 CAAGTTAATT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACAGCA GCCAACGGTC GAAAAATACAG ATGGCTCTAC ATTGCACAGA ATGTGGACGT CCCATTTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC GGAGAATATC CTGGGCCCCA AGATTGGACG TCATTTAAAG AATTTGCACAAC GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT 1600 TCTTTAACGC GGTACGGAT GATGATATCC ATTTAACATT TCAGTTTCA AGGCGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	ATERACONE TATACOCAT ADDITATEGE ATARCGCCA GCATTAAAT	1050
GAGTTGGGAS GGGCGTTCTG CTACAGCAGA GTCTAATTTG ATTCATTGA AGGACGGAAA GCCAATTAGA GATCAAGATA TACAGCTTTA CTTAAACGGA AATGAGCTAA CAGCCTTACA GGCAGGGAG GAATCGCTTG TCTAAGGAGA AATGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TCTAGGAGA CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACAGCA CAAGTTAATT CTGGAGCAGA CTGCGGTTTT CAATTACAGA ATGTGGACGT CCCATTTTAA TGGTGATAGT CTTCCGACGA ATGGCATTTT GCGATCCCTA GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCAA GGCGTTTTC CCTAATTACG CCACAGGGA ATTATTATA TCAGAAGCT TCTTTAACGC GGTACGGAT GATGATATCC ATTTAACATT TCAGAACCT AGGCGGAGACA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTCA 1700 AGGCGAGAGAC CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CONCANACIT ATCCATGOTA TGATCAAGAA TTTCATGACA TATTAAAAGC	1100
AGGACGARA GCCARTRAGA GATCAAGATA TACAGCTTTA CTTARACGGA ANTGAGCTRA CAGCCTTACA GGCAGGGGG GAATCGCTTG TTCTAGGAGA 1250 GGATTATGAA CTAGCAGGAG GGCAGGGGGG GAATCGCTTG TTCTAGGAGA CAAGACTAAT TACCCCTGGT CAATTAGGAA CCCAATGCAGT CATCACAGGA CAATTAATT CTGGAGCAGA CTGCGGTTTT CAATTACAGA ATGTGGAGGT 1400 GCCAACGGTC GAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTTTAA TGGTGATAGT CTTCCGACGA TGGAAGCTT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCGA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA ATTTATTATA TACGAACCT 1600 TCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCATTTTTGG 1650 AGGCGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CHARTMONIAN CHARTITICIS CTACAGCAGA GTCTAATTTG ATTCATGTGA	1150
ARTGAGCTAA CAGCCTTACA GGCAGGGGAG GAATCGCTTG TTCTAGGAGA 1250 GGATTATGAA CTAGCAGGAG GGCTATTAAC GCTAAAAGCG GACACCCTCA 1300 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACAGCA 1350 CAATTAATT CTGGAGCAGA CTGGUITTT CAATTACAGA ATGTGGAGCT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAACAT ATTTGTCA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCATTTTTGG 1650 AGCCGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	AGGRACIGARA GOCARTIAGA GATCARGATA TACAGCTTTA CTTARACGGA	1200
GGATTATGAA CTAGCAGGAG GCGTATTAAC GCTAAAAGCG GACACCCTCA 1300 CAAGACTAAT TACCCCTGGT CAATTAGGAA CCAATGCAGT CATCACAGCA 1350 CAATTAATT CTGGAGCAGA CTGGCGTTTT CAATTACAGA ATGGGACGT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTTTAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCAG 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT 1600 TCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCATTTTTGG 1650 AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	ANTORGOTAR CAGCOTTACA GGCAGGGGAG GARTCGCTTG TTCTAGGAGA	1250
CAAGACTAAT TACCCCTOGT CAATTAGGAA CCAATGCAGT CATCACAGCA 1350 CAATTAAATT CTGGAGCAGA CTGGCGTTTT CAATTACAGA ATGTGGACGT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATITTAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCGA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCT 1600 TCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCAGATTTTGG AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	GGATTATGAA CTAGCAGGAG GCGTATTAAC GCTAAAAGCG GACACCCTCA	1300
CAATTAATT CTGGAGCAGA CTGGCGTTTT CAATTACAGA ATGTGGACGT 1400 GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTITAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTAAAG AATTTGGCGA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT 1600 TCTTTAACGC GGTACGGGAT GATGATATCC ATTAACATT TCATTTTTGG 1650 AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CARGACTRAT TRCCCCTGGT CARTTAGGAA CCARTGCAGT CATCACAGCA	1350
GCCAACGGTC GAAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA 1450 CCCATTITAA TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCGA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT 1600 TCTTTAACGC GGTACCGGGAT GATGATATCC ATTTAACATT TCATTTTTGG 1650 AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CAATTTAATT CTGGAGCAGA CTGGCGTTTT CAATTACAGA ATGTGGACGT	1400
CCCATITIAN TGGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCANAC 1500 GGAGAATATG CTGGGCCGCA AGATTGGACG TCATITIANG AATTTGGCGA GGCGTTITCT CCTANTIACG CCACAGGGGA NATTATTATA TCAGAAGCCT TCTTTANCGC GGTACGGGAT GATGATATCC ATTTANCATT TCATTTTTGG AGCGGAGAGA CGGTGGAATA TACCTTACGT ANANATGGCA ATTATGTTCA 1700	GCTAACTGTC GRAAATACAG ATGGCTCAAC ATGGCATTTT GCGATCCCTA	1450
GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCGA 1550 GGCGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT 1600 TCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCATTTTTGG 1650 AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	CCATTITAA TOGTGATAGT CTTGCGACGA TGGAAGCTGT TTATGCAAAC	1500
GGGGTTTTCT CCTAATTACG CCACAGGGGA AATTATTATA TCAGAAGCCT TCTTTAACGC GGTACGGGAT GATGATATCC ATTTAACATT TCATTTTTCG AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700	GGAGAATATG CTGGGCCGCA AGATTGGACG TCATTTAAAG AATTTGGCGA	
AGCGGAGAGA CGGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA 1700		
ACCOMMEN COGLOGATIA INCCIINCOL MEDICIONE	TOTITAACGO GGTACGGGAT GATGATATCO ATTTAACATT TOATTTTTGG	
ACCITACIONOS TAR 1713	AGCGGAGAGA COGTGGAATA TACCTTACGT AAAAATGGCA ATTATGTTCA	
Mid thereas are:	AGGTAGACGG TAA	1713

(57) Abstract: The present invention provides a novel cellulase nucleic acid sequence, designated BagCel, and the corresponding BagCel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding BagCel, recombinant BagCel methods proteins and producing the same.